CLAIM AMENDMENTS

1. (Currently Amended) A method of cleaning a semiconductor material surface of a partially manufactured integrated circuit, wherein the semiconductor material surface contains dopant ions, the method comprising:

coating the semiconductor material surface containing the dopant ions with a solution consisting of a non-aqueous organic solvent selected from the group consisting of ketones, polyhydric alcohols, cyclic ethers and esters, and mixtures thereof, wherein coating the semiconductor material surface is subsequent to implantation of dopant ions into the surface; occurs prior to formation of a barrier layer on the surface, and prior to any other semiconductor manufacturing process; and

removing the solvent and the dopant ions from the semiconductor material surface.

- 2 (Previously Presented) The method according to Claim 1, wherein the semiconductor material surface is a collar region in a deep trench.
- 3. (Original) The method according to Claim 1, further comprising rinsing the partially manufactured integrated circuit with deionized water.
- 4. (Original) The method according to Claim 1, wherein the solvent is selected from the group consisting of acctone, methyl ethyl ketone, cyclohexanone, methyl isoamyl ketone and 2-heptanone, ethyleneglycol, ethyleneglycol monoacctate, diethyleneglycol, diethyleneglycol monoacctate, propyleneglycol, propyleneglycol monoacctate, dipropyleneglycol and dipropyleneglycol monoacctate as well as monomethyl, monochul, monopropyl, monobulyl and monophenyl ethers thereof, dioxane, methyl lactate, ethyl lactate, methyl acctate, ethyl acctate, butyl acetate, methyl pyruvate, ethyl pyruvate, methyl methoxypropionate, ethyl ethoxypropionate and mixtures thereof.
 - 5. (Canceled)

- 6. (Original) The method according to Claim 1, wherein the dopant ions are selected from the group consisting of arsenic, gallium, indium, phosphorous, boron, autimony and bismuth ions.
- 7. (Previously Presented) The method according to Claim 1, further comprising heating the semiconductor material surface and removing an increased amount of dopant ions relative to not heating the semiconductor material surface.
 - 8. (Canceled)
 - 9. (Canceled)
- 10. (Currently Added) The method according to Claim 1, wherein coating the surface occurs prior to formation of a barrier layer on the surface.